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Attorney Docket No. 8702.0002-0

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:)
)
MANJUNATH et al.) Group Art Unit: 1644
)
Application No.: 09/904,710) Examiner: Not yet assigned
)
Filed: July 12, 2001)
)
For: INHIBITION OF)
DIFFERENTIATION OF)
CYTOTOXIC T-CELLS BY P-)
SELECTIN LIGAND (PSGL)
ANTAGONISTS

Commissioner for Patents and Trademarks
Washington, DC 20231

Sir:

INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. § 1.97(b)

Pursuant to 37 C.F.R. §§ 1.56 and 1.97(b), applicants bring to the attention of the Examiner the documents listed on the attached PTO 1449. This Information Disclosure Statement is being filed before the mailing date of a first Office Action on the merits for the above-referenced application.

Copies of the listed documents were previously submitted in a prior application, application no. 09/431,979, filing date October 29, 1999, upon which applicants rely for the benefits provided in 35 U.S.C. § 120. Therefore, pursuant to 37 C.F.R. § 1.98(d), Applicants have not provided copies with this Information Disclosure Statement.

Applicants respectfully request that the Examiner consider the listed documents and indicate that they were considered by making appropriate notations on the attached form.

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This submission does not represent that a search has been made or that no better art exists and does not constitute an admission that each or all of the listed documents are material or constitute "prior art." If the Examiner applies any of the documents as prior art against any claim in the application and applicants determine that the cited documents do not constitute "prior art" under United States law, applicants reserve the right to present to the office the relevant facts and law regarding the appropriate status of such documents.

Applicants further reserve the right to take appropriate action to establish the patentability of the disclosed invention over the listed documents, should one or more of the documents be applied against the claims of the present application.

If there is any fee due in connection with the filing of this Statement, please charge the fee to our Deposit Account No. 06-0916.

Respectfully submitted,

FINNEGAN, HENDERSON, FARABOW,
GARRETT & DUNNER, L.L.P.

Dated: March 7, 2002

By: 

Leslie McDonnell

Reg. No. 34,872



INFORMATION DISCLOSURE CITATION

OMB No. 0651-0011

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Atty. Docket No.	8702.0002501	Serial No.	09/904,710
Applicant	MANJUNATH et al.		
Filing Date	July 12, 2001	Group:	1644

Examiner Initial*	Document Number	Issue Date	Name	Class	Sub Class	Filing Date If Appropriate
	5,614,615	3/25/97	Wong	536	17.9	8/25/95
	5,827,817	10/27/98	Larsen et al.	514	2	6/7/95

	Document Number	Publication Date	Country	Class	Sub Class	Translation Yes or No
	WO 98/08949	05/03/98	PCT	C12N	15/12	YES

	Arbones, M.L., et al., "Lymphocyte Homing and Leukocyte Rolling and Migration Are Impaired in L-Selectin-Deficient Mice," <i>Immunity</i> , July, 1994; Vol 1: 247-260.
	Binder, D., et al., "Antiviral Protection by CD8+ Versus CD4+ T Cells. CD8+ T Cells Correlating with Cytotoxic Activity In Vitro Are More Efficient in Antivaccinia Virus Protection Than CD4- Dependent IL." <i>J. Immunol.</i> , June 15, 1991; Vol. 146, No.12:4301-4307.
	Blanden, R.V., "Mechanisms of Recovery From A Generalized Viral Infection: Mousepox. III. Regression Infectious Foci," <i>J. Exp. Med.</i> , May 1, 1997; Vol. 133, No.5:1090-1104.
	Borges, E., et al., "P-Selectin Glycoprotein Ligand-1 (PSGL-1) on T Helper 1 but Not on T-Helper 2 Cells Binds to P-Selectin and Supports Migration into Flamed Skin," <i>J. Exp. Med.</i> , February 3, 1997; Vol. 185, No. 3: 573-578.
	Borges, E., et al., "P-Selectin Glycoprotein Ligand-1 Is Important for Recruitment of Neutrophils Into Inflamed Mouse Peritoneum," <i>Blood</i> , September 1, 1997; Vol. 90, No.5: 1934-1942.
	Butcher, E.C., "Leukocyte-Endothelial Cell Recognition: Three (or More) Steps to Specificity and Diversity," <i>Cell</i> , December 20, 1991; Vol. 67, 1033-1036.
	Butcher, E.C., et al., "Lymphocyte Homing and Homeostasis," <i>Science</i> , April 5, 1996; Vol. 272:60-66.
	Butz, E.A., et al., "Massive Expansion of Antigen-Specific CD8+ T Cells during an Acute Virus Infection," <i>Immunity</i> , February, 1998; Vol. 8:167-175.

INFORMATION DISCLOSURE CITATION

OMB NO. 0651-0047

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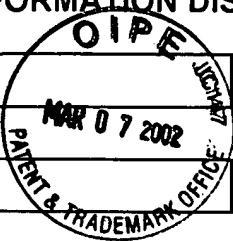
Atty. Docket No.	8702.0002-01	Serial No.	09/904,710
Applicant	MANJUNATH et al.		
Filing Date	July 12, 2001	Group:	1644

	Carlos, T.M., et al., "Leukocyte-Endothelial Adhesion Molecules," <i>Blood</i> , October 1, 1994; Vol. 84, No. 7: 2068-2101.
	Catalina, M.D., et al., "The Route of Antigen Entry Determines the Requirement for L-Selectin during Immune Responses," <i>J. Exp. Med.</i> , December, 1996; Vol. 184: 2341-2351
	Davenpeck, K.L., et al., "Activation of Human Leukocytes Reduces Surface P-Selectin Glycoprotein Ligand-1 (PSGL-1, CD162) and Adhesion to P-Selectin InVitro," <i>J. Immunol.</i> , 2000; Vol. 165: 2764-2772
	Frenette, P.S., et al., "Susceptibility to Infection and Altered Hematopoiesis in Mice Deficient in Both P- and E- Selectins," <i>Cell</i> , February 23, 1996; Vol. 84: 563-574.
	Fuhlbrigge, R.C., et al., "Cutaneous Lymphocyte Antigen is a Specialized Form of PSGL-1 Expressed on Skin-Homing T-Cells," <i>Nature</i> , October 30, 1997; Vol. 389:978-981.
	Gallatin, W., et al., "A Cell Surface Molecule Involved in Organ-Specific Homing of Lymphocytes," <i>Nature</i> , July 7, 1983; Vol. 304: 30-34.
	Hemmerich, S., et al., "Structure of the O-Glycans in GlyCAM-1, an Endothelial-derived Ligand for L-Selectin," <i>J. Biol. Chem.</i> , May 19, 1995; Vol. 270, No. 20: 12035-12047.
	Kagi, D., et al., "The roles of perforin- and Fas-dependent cytotoxicity in protection against cytopathic and noncytopathic viruses," <i>Eur. J. Immunol.</i> , 1995; Vol. 25:3256-3262.
	Kagi, D., et al., "Different roles for cytotoxic T cells in the control of infections with cytopathic versus noncytopathic viruses," <i>Curr. Opin. Immunol.</i> , 1996; Vol. 8, No.4:472-477.
	Kansas, G.S., "Selectins and Their Ligands: Current Concepts and Controversies," <i>Blood</i> , November 1, 1996; Vol. 88, No.9: 3259-3287.
	Krüger, K., et al., "Activated T lymphocytes bind <i>in situ</i> to stromal tissue of colon carcinoma but lack adhesion to tumor cells," <i>Eur. J. Immunol.</i> , 2001; Vol. 37: 138-145
	Laszik, Z., et al., "P-Selectin Glycoprotein Ligand-1 Is Broadly Expressed in Cells of Myeloid, Lymphoid, and Dendritic Lineage and in Some Nonhematopoietic Cells," <i>Blood</i> , October 15, 1996; Vol. 88, No. 8: 3010-3021.
	Li, F., et al., "Post-translational Modifications of Recombinant P-Selectin Glycoprotein Ligand-1 Required for Binding to P- and E-selectin," <i>J. Biol. Chem.</i> , February 9, 1996; Vol. 271, No.6: 3255-3264.
	Lowe, J.B., "Selectin ligands, leukocyte trafficking, and fucosyltransferase genes," <i>Kidney Int'l.</i> , 1997; Vol. 51:1418-1426.
	Maly, P., et al., "The $\alpha(1,3)$ Fucosyltransferase Fuc-TVII Controls Leukocyte Trafficking through an Essential Role in L-, E-, and P-Selectin Ligand Biosynthesis," <i>Cell</i> , August 23, 1996; Vol. 86: 643-653.

INFORMATION DISCLOSURE CITATION

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	Manjunath, N., et al., "Negative regulation of T-cell adhesion and activation by CD43," <i>Nature</i> , October 12, 1995; Vol. 377: 535-538.
	Manjunath, N., et al., "A transgenic mouse model to analyze CD8(+) effector T cell differentiation <i>in vivo</i> ," <i>PNAS</i> , November 23, 1999; Vol. 96, No.24:13932-13937.
	Mayadas, T.N., et al., "Leukocyte Rolling and Extravasation Are Severely Comprised in P-Selectin-Deficient Mice," <i>Cell</i> , August 13, 1993; Vol. 74: 541-554.
	Moore, K.L., et al., "The P-Selectin Glycoprotein Ligand from Human Neutrophils Displays Sialylated, Fucosylated, O-linked Poly-N-acetyllactosamine," <i>J. Biol. Chem.</i> , September 16, 1994; Vol. 269, No.37: 23318-23327.
	Muller, U., et al., "Functional Role of Type I and Type II Interferons in Antiviral Defense," <i>Science</i> , June 24, 1994; Vol. 264: 1918-1921.
	Murali-Krishna, K., et al., "Counting Antigen-Specific CD8 T Cells: A Reevaluation of Bystander Activation During Viral Infection," <i>Immunity</i> , February, 1988; Vol. 8: 177-187.
	Norman, K.E., et al., "Leukocyte Rolling In Vivo is Mediated by P-Selectin Glycoprotein Ligand-1" <i>Blood</i> , December 15, 1995; Vol. 86, No. 12: 4417-4421.
	Ogg, G.S., et al., "Quantitation of HIV-1 Specific Cytotoxic T Lymphocytes and Plasma Load of Viral RNA," <i>Science</i> , March 27, 1998; Vol. 279: 2103-2106.
	Paul, W.E., "Peripheral Circulation of T-Lymphocytes," <i>Fundamental Immunology</i> , 1999; 4th Edition, Chapter 11:393-397
	Picker, L.J., "Control of Lymphocyte Homing," <i>Curr. Opin. Immunol.</i> , 1994; Vol. 6:394-406.
	Pouyani, T., et al., "PSGL-1 Recognition of P-Selectin Is Controlled by a Tyrosine Sulfation Consensus at the PSGL-1 Amino Terminus," <i>Cell</i> , October 20, 1995; Vol. 83: 333-343.
	Robinson, S.D., et al., "Multiple, targeted deficiencies in selectins reveal a predominant role for P-selectin in leukocyte recruitment," <i>Proc. Natl. Acad. Sci. USA</i> , September, 1999; Vol. 96: 11452-11457.
	Sako, D., et al., "A Sulfated Peptide Segment at the Amino Terminus of PSGL-1 is Critical for P-Selectin Binding," <i>Cell</i> , October 20, 1995; Vol. 83: 323-331.
	Shankar, P., et al., "A Simple Method to Selectively Expand HIV-1 Specific Cytotoxicity T Lymphocytes In Vitro," <i>Immunol. Invest.</i> , 1995; Vol. 24, No. 3: 489-497.
	Spriggs, M.K., et al., "β2-Microglobulin-, CD8+ T-cell-deficient mice survive inoculation with high doses of vaccinia virus and exhibit altered IgG responses," <i>Proc. Natl. Acad. Sci. U.S.A.</i> , July, 1992; Vol. 89:6070-6074.
	Springer, T.A., "Traffic Signals for Lymphocyte Recirculation and Leukocyte Emigration: the Multistep Paradigm," <i>Cell</i> , January 28, 1994; Vol. 76:301-314.

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	Takada, M., et al., "The Cytokine-adhesion Molecule Cascade in Ischemia/Reperfusion injury of the Rat Kidney. Inhibition by a Soluble P-Selectin Ligand," <i>J. Clin. Invest.</i> June, 1997; Vol. 99, No. 11: 2682-2690.
	Tough, D.F., et al., "Induction of Bystander T Cell Proliferation by Viruses and Type I Interferon In Vivo," <i>Science</i> , June 28, 1996; Vol. 272: 1947-1950.
	Tripp, R.A., et al., Recruitment and Proliferation of CD8+ T Cells in Respiratory Virus Infections," <i>J. Immunol.</i> , 1995; Vol. 154: 6013-6021.
	Vestweber, D., et al., "Mechanisms That Regulate the Function of the Selectins and Their Ligands," <i>Physiol. Rev.</i> , January, 1999; Vol. 79, No. 1: 181-213.
	Xie, H., et al., "Acquisition of Selectin Binding and Peripheral Homing Properties by CD4(+) and CD8(+) T Cells," <i>J. Exp. Med.</i> , June 7, 1999; Vol. 189, No. 11: 1765-1776.

Examiner	Date Considered
<p>*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</p>	
Form PTO 1449	Patent and Trademark Office - U.S. Department of Commerce